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L4 and (560/\$ or 524/\$)	6

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<u>L5</u>	L4 and (560/\$ or 524/\$)	6	<u>L5</u>
<u>L4</u>	L3 and alcohol and catalyst	9	<u>L4</u>
<u>L3</u>	L2 and decarboxy\$9	9	<u>L3</u>
<u>L2</u>	L1 and (tetrabromophthalic\$7 or tetrabromophthalic anhydride)	196	<u>L2</u>
<u>L1</u>	tetrabromophthalic ester or diester	62562	<u>L1</u>

END OF SEARCH HISTORY

US-CL-CURRENT: 560/103

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 3. Document ID: US 7183423 B1

L4: Entry 3 of 9

File: USPT

Feb 27, 2007

US-PAT-NO: 7183423

DOCUMENT-IDENTIFIER: US 7183423 B1

TITLE: Process for the preparation of organic compounds with imide catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 4. Document ID: US 5728760 A

L4: Entry 4 of 9

File: USPT

Mar 17, 1998

US-PAT-NO: 5728760

DOCUMENT-IDENTIFIER: US 5728760 A

TITLE: Use of ring-brominated benzoate compounds as flame retardants and/or plasticizers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 5. Document ID: US 5728323 A

L4: Entry 5 of 9

File: USPT

Mar 17, 1998

US-PAT-NO: 5728323

DOCUMENT-IDENTIFIER: US 5728323 A

TITLE: Process for preparing dialkyl tetrahalophthalates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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☐ 6. Document ID: US 5637757 A

L4: Entry 6 of 9

File: USPT

Jun 10, 1997

US-PAT-NO: 5637757

DOCUMENT-IDENTIFIER: US 5637757 A

**** See image for Certificate of Correction ****

TITLE: One-pot synthesis of ring-brominated benzoate compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw D
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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20060216619 A1

L4: Entry 1 of 9

File: PGPB

Sep 28, 2006

PGPUB-DOCUMENT-NUMBER: 20060216619

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060216619 A1

TITLE: Charge-transporting compound, electrophotographic photoreceptor, image-forming apparatus, and process cartridge

PUBLICATION-DATE: September 28, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Iwasaki; Masahiro	Kanagawa		JP
Nukada; Katsumi	Kanagawa		JP
Yamada; Wataru	Kanagawa		JP
Yao; Kenji	Kanagawa		JP

US-CL-CURRENT: [430/58.75](#); [430/56](#), [430/58.65](#), [430/73](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20050027139 A1

L4: Entry 2 of 9

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027139

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050027139 A1

TITLE: Process for producing tetrabromobenzoate esters

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bartley, David W.	West Lafayette	IN	US
Siebecker, James D.	West Lafayette	IN	US
Falloon, Stephen B.	Lafayette	IN	US

☐ 7. Document ID: US 5208366 A

L4: Entry 7 of 9

File: USPT

May 4, 1993

US-PAT-NO: 5208366

DOCUMENT-IDENTIFIER: US 5208366 A

TITLE: High yield method for preparation of dialkyl esters of polyhaloaromatic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 8. Document ID: US 5049697 A

L4: Entry 8 of 9

File: USPT

Sep 17, 1991

US-PAT-NO: 5049697

DOCUMENT-IDENTIFIER: US 5049697 A

TITLE: High yield method for preparation of dialkyl esters of polyhaloaromatic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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☐ 9. Document ID: US 3775165 A

L4: Entry 9 of 9

File: USPT

Nov 27, 1973

US-PAT-NO: 3775165

DOCUMENT-IDENTIFIER: US 3775165 A

** See image for Certificate of Correction **

TITLE: POLYMERS OF IMPROVED FLAME RETARDANCE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw D
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substance identification.

=> s tetrabromophalic?
L2 1 TETRABROMOPHALIC?

=> s tetrabromophthalic?
L3 674 TETRABROMOPHTHALIC?

=> s l3 and ((ester or diester)
UNMATCHED LEFT PARENTHESIS 'AND ((ESTER'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l3 and (ester or diester)
604022 ESTER
15979 DIESTER
L4 117 L3 AND (ESTER OR DIESTER)

=> s l4 and alcohol and catalyst
266405 ALCOHOL
770520 CATALYST
L5 2 L4 AND ALCOHOL AND CATALYST

=> s l5 and py<2003
22880437 PY<2003
L6 2 L5 AND PY<2003

=> d 1-2 ibib abs hitstr

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:352302 HCAPLUS
DOCUMENT NUMBER: 134:353953
TITLE: Esterification method for the manufacture of
plasticizers for polymers
INVENTOR(S): Buono, John A.; Cobb, Maryellen; Tao, Tao T.
PATENT ASSIGNEE(S): Teknor Apex Company, USA
SOURCE: U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 199,691,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6232427	B1	20010515	US 1999-470613	19991222 <--
WO 2001046311	A1	20010628	WO 2000-US34733	20001220 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1997-67970P P 19971208
US 1998-199691 B2 19981125
US 1999-470613 A2 19991222

AB Methods of making halogenated aromatic esters useful as plasticizers are described. Polymer compns. including halogenated aromatic esters are also described. In one embodiment, the method includes contacting a tetrabromophthalate, an alc. and barium acetate.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:535443 HCAPLUS

DOCUMENT NUMBER: 111:135443

TITLE: High yield methods for preparation of dialkyl esters of polyhaloaromatic acids as fire retardants for polymers

INVENTOR(S): Bohen, Joseph Michael; Mancuso, Anthony John

PATENT ASSIGNEE(S): Pennwalt Corp., USA

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8902887	A2	19890406	WO 1988-US3256	19880921 <--
WO 8902887	A3	19900322		
W: AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU				
RW: AT, BE, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
US 5049697	A	19910917	US 1988-244421	19880916 <--
AU 8827200	A	19890418	AU 1988-27200	19880921 <--
AU 626819	B2	19920813		
EP 334951	A1	19891004	EP 1988-910425	19880921 <--
EP 334951	B1	19950412		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
BR 8807209	A	19891017	BR 1988-7209	19880921 <--
ES 2010608	A6	19891116	ES 1988-2869	19880921 <--
JP 02502018	T	19900705	JP 1988-509511	19880921 <--
DD 282449	A5	19900912	DD 1988-319987	19880921 <--
HU 54339	A2	19910228	HU 1988-6807	19880921 <--
CA 1333178	C	19941122	CA 1988-578019	19880921 <--
AT 121069	T	19950415	AT 1988-910425	19880921 <--
NO 8902003	A	19890518	NO 1989-2003	19890518 <--
NO 170147	B	19920609		
NO 170147	C	19920916		
FI 8902449	A	19890519	FI 1989-2449	19890519 <--
DK 8902441	A	19890718	DK 1989-2441	19890519 <--
US 5208366	A	19930504	US 1991-738992	19910819 <--

PRIORITY APPLN. INFO.: US 1987-99361 A 19870921
US 1988-244421 A 19880916
WO 1988-US3256 A 19880921

AB Title fire retardants are prepared by esterification of polybromo- or polychlorophthalic acid, polybromo- or polychlorobenzoic acids, or polybromo- or polychlorophthalic anhydride with alcs. in the presence of metal or organometallic compound as catalyst. A flame retardant [A; prepared by esterification of 0.5 mol tetrabromophthalic anhydride and 3.0 mol 2-(2-methoxyethoxy)ethanol with 2.32 g stannous

oxalate and 200 mL xylene] 60 was molded with a mixture of PVC 100, dibasic lead phthalate 7, clay 10, bisphenol A 0.3, and wax 0.3 part having oxygen index 56.5 vs. 28.0 for DOP instead of A.